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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/551,096

10/05/2006

Kym John Keightley

1708

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7590

04/16/2009

BIO INTELLECTUAL PROPERTY SERVICES (BIO IPS) LLC  
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EXAMINER

HOWELL, DANIEL W

ART UNIT

PAPER NUMBER

3726

MAIL DATE

DELIVERY MODE

04/16/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/551,096	<b>Applicant(s)</b> KEIGHTLEY, KYM JOHN	
	<b>Examiner</b> Daniel W. Howell	<b>Art Unit</b> 3726	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 13 March 2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 16-27 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 26 and 27 is/are allowed.
- 6) ☒ Claim(s) 16-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 16, 18, 19, and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Webster (2917975). Boss/base member 1 has a first threaded member 4 of a relatively large diameter and a second threaded member 6 of a relatively smaller diameter. The device is capable of supporting a threaded hole saw. It is noted that the threads 4 and 6 are of opposite hand, and that a tool operator need be careful that the direction of rotation of the boss 1 not tend to loosen the hole saw during operation, but the operator could simply use a hole saw having a desired direction of rotation that wouldn't cause unthreading to happen, and claim 16 is so broadly written that there simply isn't enough there to preclude applying Webster against it. Regarding claim 19, it is considered to be inherent to provide appropriately sized thread diameters. Webster is capable of performing the function of claim 20. The taper/connection means 1 will engage an appropriate mandrel/spindle.

3. Claims 16, 18, 19, and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Leary (347942). Note the boss/base/connection means/shank, large diameter threads a', and small diameter threads a. The device is capable of holding threaded hole saws.

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4. Claims 16-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Cantlon (7104738). It is noted that Cantlon has a provisional application filed on June 27, 2003, and this provisional application is available to the public on PAIR. The subject matter in this rejection is disclosed in that provisional application. Boss 26 has a larger diameter thread 54 and a smaller diameter thread 52, both of which secure hole saws. Hole saws of varying diameter are illustrated. Base 53, 55, is located in a mandrel 22. The threads are considered to be long enough that more than one hole saw can be placed on the threaded portion. Note drill bit 28.

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 16-22 rejected under 35 U.S.C. 103(a) as being unpatentable over Makar (4303357) in view of Anderson (5624213). As best seen from figure 1, Makar shows a hole saw 29a having a rear wall with a circular opening 31a, 32a, having flats 33a, 34a. To connect the hole saw to a boss/base member 16, the flats 33a, 34a, are aligned with flats 20a, 21a, and then the hole saw is slightly turned to form a bayonet connection with the base/boss. Note pilot drill 15 secured by screw 12. Connection means 10 is located in an appropriate holder/mandrel. As discussed at column 1, lines 12-19, and 52-55, and column 3, lines 60 through column 4, line 36, the boss/base is provided with two such bayonet connecting devices 17, 17a, such that hole saws having different sizes of connections can be used on the same boss/base. Other types of connections between the hole saw and boss/base are well known. Figure 1 of Anderson shows a boss/base 28 having a threaded portion 46 for holding hole saws 12. As seen from figures 3 and

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5, the threads may be long enough to support two hole saws on one set of threads 46. It is considered to have been obvious to have provided Makar with threads as shown by Anderson on the larger and smaller connecting devices 17, 17a, in order to be able to hold threaded hole saws of different sizes, as this is a simple substitution of one known element/connection for another in order to obtain a predictable result of securing the hole saw on the boss/base.

7. Claims 23-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Makar in view of Anderson as applied to claims 16 and 17 above, and further in view of Burk (6676343). It is well known to use device such as Makar for enlarging holes. Figure 2 shows a smaller diameter hole saw 40 extending axially forward of larger diameter hole saw 30, such that the smaller diameter hole saw will serve as a pilot in the hole 101. It is considered to have been obvious to have equipped Makar with two hole saws as shown by Burk in order to enlarge a previously existing hole.

8. Claim 21 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 21 needs to depend from claim 18 in order to provide antecedent basis for the base member.

9. Claims 16-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over French 2587245 in view of Bossler (4551045). As best seen from figure 1, FR '245 shows several hole saws 2 of different diameters and having a rear wall with projections 2a. To connect a hole saw to a boss/base member 1, the projections 2a are aligned with mating grooves at 1d, and then the hole saw is slightly turned to form a bayonet connection with the base/boss 1. Note the central hole for a pilot drill. The shank near numeral 1 is a connection means 10 for location in an

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appropriate holder/mandrel. Other types of connections between the hole saw and boss/base are well known. Figure 2 of Bossler shows a boss/base having a threaded portion 26 for holding larger diameter annular cutter 21, and a second set of smaller diameter threads on member 25 to secure a smaller diameter annular cutter 20. Note that the cutter 20 extends well forward of cutter 21, and the smaller diameter may also be used as a pilot in a pre-existing hole. It is considered to have been obvious to have provided French '245 with threads as shown by Bossler on the various diameter steps 1b in order to be able to hold threaded hole saws of different sizes, as this is a simple substitution of one known element/connection for another in order to obtain a predictable result of securing the hole saw on the boss/base.

10. Claims 26 and 27 are allowed.

11. Any inquiry concerning the content of this communication from the examiner should be directed to Daniel Howell, whose telephone number is 571-272-4478. The examiner's office hours are typically about 10 am until 6:30 pm, Monday through Friday. The examiner's supervisor, David Bryant, may be reached at 571-272-4526.

In order to reduce pendency and avoid potential delays, Group 3720 is encouraging FAXing of responses to Office actions directly into the Group at FAX number to 571-273-8300. This practice may be used for filing papers not requiring a fee. It may also be used for filing papers which require a fee by applicants who authorize charges to a USPTO deposit account. Please identify Examiner Daniel Howell of Art Unit 3726 at the top of your cover sheet.

/Daniel W. Howell/

Primary Examiner, Art Unit 3726